



# CREAMER ENVIRONMENTAL, INC.

CONTRACTORS & CONSULTANTS

12 Old Bridge Road, Cedar Grove, NJ 07009

201-968-3300 Fax (201) 968-3301

## LETTER OF TRANSMITTAL

TO

**Environ International Corporation**

**20 Custom House Street**

**Boston, MA 02110**

<b>DATE: 4/11/16</b>	<b>JOB NO.: 16-0463</b>
<b>ATTENTION: Nicholas Steenhaut</b>	
<b>RE: Metal Bank NPL Site</b>	

**WE ARE SENDING YOU**

☐ Shop Drawings

☐ Copy of letter



Attached



Prints



Change order



Under separate cover via \_\_\_\_\_ the following items:



Plans



Samples



Specifications



\_\_\_\_\_

COPIES	DATE	PAGES	DESCRIPTION
1	4/8/2016	2	Submittal #3.2 Sequence of Work and Construction Schedule (Red Lined)
1	4/8/2016	2	Submittal #3.2 Sequence of Work and Construction Schedule

**THESE ARE TRANSMITTED as checked below:**

☒ For Acceptance

☐ For your use

☐ As requested

☐ Review & comment

☐ Approved as submitted

☐ Approved as noted

☐ Returned for corrections

☐ \_\_\_\_\_

☐ Resubmit \_\_\_\_ copies for approval

☐ Submit \_\_\_\_ copies for distribution

☐ Return \_\_\_\_ corrected print

**REMARKS**

**COPY TO:**

**SIGNED:**

*Meghan Murphy*

**Meghan Murphy**  
**Project Coordinator**



# CREAMER ENVIRONMENTAL, INC.

REMEDIATION CONTRACTORS

12 OLD BRIDGE ROAD - CEDAR GROVE, NEW JERSEY 07009

(201) 968-3300 • FAX (201) 968-3301

## Metal Bank NPL Site Philadelphia, PA Sequence of Work and Construction Schedule

Creamer Environmental, Inc. (CEI) will mobilize to the site following the approval of the required submittals and all work will be performed in accordance with the respective plan(s). The site set up will consist of installation of an office/crew trailer to run the project from. The trailer will be powered by a portable generator. Cell phones will be used for communication. The fence along the length of wall to receive the rip rap will be removed and replaced at the completion of the work. During this period a temporary fence will be installed behind the sheeting for fall protection and to maintain security. The vegetation will be mowed in the work area to make it possible to traverse the work area. As a part of the site mobilization, CEI will perform a bathymetric survey prior to the rip rap installation to document the existing conditions. Following the survey, a turbidity curtain will be installed around the active work area prior to the start of work. During the placement of stone turbidity will be monitored multiple times daily and during the monitoring the curtain will be inspected for any maintenance that may be required.

The rip rap will be delivered to the site in dump trucks and stockpiled periodically such that a crane with clamshell and/or a long reach excavator will be able to pick it up and place it along the shoreline as required. The rip rap installation will be performed following a Turbidity Control Plan. The clamshell bucket or excavator bucket will be lowered close to the bottom to carefully place the first layer of R6 stone. Each subsequent layer of stone will be placed via a submerged bucket lowered to within 2' to 3' feet of the previous layer in order to minimize turbidity. The initial location for the rip rap placement will be the waler repair area ~~of within~~ Zone 2 so work can begin. CEI will install a stone berm to approximately Elevation 5.5 in the waler repair area ~~(Zone 2)~~ to create a work platform for welding. The work platform will be left in place at the completion of the project. The rip rap installation will continue during the waler repair work in Zone 1. Once Zone 1 is completed the rip rap installation will be continued in the remaining portion of Zone 2 and in Zone 3. Periodically the rip rap will be surveyed to make sure that it is being installed to the proper elevation. Upon completion a bathymetric survey will be performed to verify the as-built conditions.

Once the waler repair is completed, CEI will conduct tie-rod testing as per the specifications. Following the proof testing, CEI will begin to demobilize the site. The temporary fence along the bulkhead will be removed and the existing fence will be reinstalled. The disturbed vegetated areas will be re-graded as needed and the areas reseeded.

Please see the attached Construction Schedule for a timeline of the above activities.

Creamer Environmental, Inc.  
12 Old Bridge Road  
Cedar Grove, NJ 07009

Metal Bank NPL Site  
Philadelphia, PA  
Proposed Construction Schedule

ID	Task Mode	Task Name	Duration	Start	Finish	Jan 3, '16	Jan 10, '16	Jan 17, '16	Jan 24, '16	Jan 31, '16	Feb 7, '16	Feb 14, '16	Feb 21, '16	Feb 28, '16	Mar 6, '16	Mar 13, '16	Mar 20, '16	Mar 27, '16	Apr 3, '16	Apr 10, '16	Apr 17, '16	Apr 24, '16	May 1, '16	May 8, '16	May 15, '16	May 22, '16	May 29, '16	Jun 5, '16	Jun 12, '16						
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1		Contract award	0 days	Mon 1/4/16	Mon 1/4/16																														
2		Receipt of contract	5 days	Mon 1/4/16	Fri 1/8/16																														
3		Prepare and submit workplans and cut sheets	45 days	Mon 1/11/16	Fri 3/11/16																														
4		Approval of submittals	35 days	Mon 3/14/16	Fri 4/29/16																														
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6		Installation of riprap	15 days	Mon 5/9/16	Fri 5/27/16																														
7		Repair of waler	10 days	Mon 5/23/16	Fri 6/3/16																														
8		Proof testing of anchors	5 days	Thu 6/2/16	Wed 6/8/16																														
9		Restoration	4 days	Thu 6/9/16	Tue 6/14/16																														
10		Demobilization	2 days	Wed 6/15/16	Thu 6/16/16																														

Proposed Construction Schedule

Task Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Progress

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